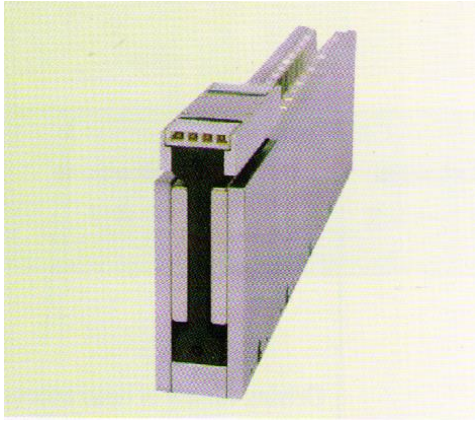


LMML010



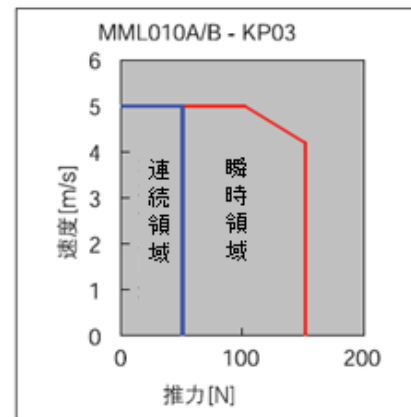
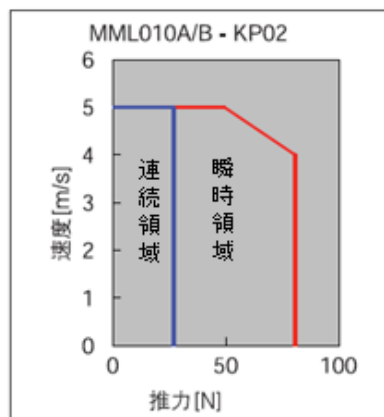
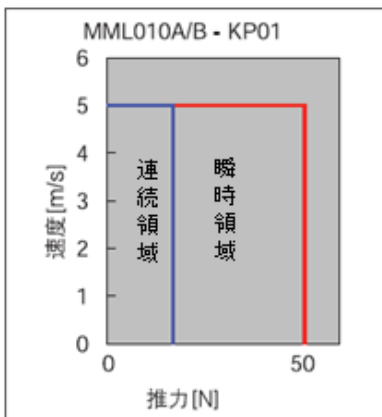
LMML010 is the lightest weight and most compact linear motor within the MML series. You can use this linear motor effectively in the small-limited space. Using this MML010, total system will be able to down sizing in various field

Standard specification

| | |
|-----------------------|--------------------------|
| Insulation capacity | AC1500V 1min |
| Operating range | 0~40°C |
| Cooling method | Self cooling |
| Insulation resistance | DC500V 100M Ω and more |
| Operating humidity | 20~80% (No condensation) |
| Maximum temperature | 120°C |

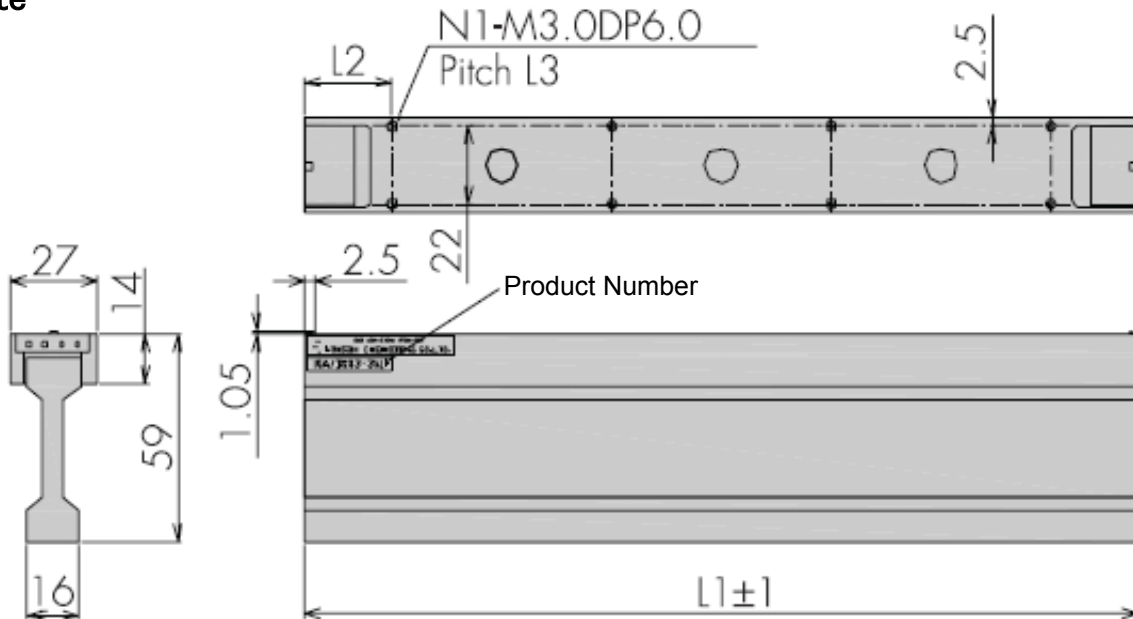
| Item | Unit | LMML010-KP01 | | LMML010-KP02 | | LMML010-KP03 | |
|---------------------------------------------|------------|--------------|------|--------------|------|--------------|------|
| | | A | B | A | B | A | B |
| Continues force | N | 14.0 | | 26.9 | | 50.7 | |
| Continues Current | Arms | 1.32 | 0.66 | 1.26 | 0.63 | 2.41 | 1.20 |
| Peak current | N | 42.0 | | 80.7 | | 152.1 | |
| Peak current | Amps | 3.96 | 1.97 | 3.79 | 1.89 | 7.23 | 3.60 |
| Mover weight | kg | 0.17 | | 0.31 | | 0.61 | |
| Force constant | N/Arms | 11.3 | 22.4 | 22.4 | 45.2 | 22.2 | 44.7 |
| Motor constant | N/√W | 4.6 | 4.5 | 6.4 | 6.5 | 9.0 | 9.1 |
| Back EMF | Vrms/(m/s) | 6.5 | 13.0 | 12.9 | 26.1 | 12.8 | 25.8 |
| Coil resistance | Ω | 4.1 | 16.3 | 8.1 | 32.7 | 4.0 | 16.2 |
| Inductance | mH | 1.21 | 4.79 | 2.43 | 9.57 | 1.21 | 4.92 |
| Thermal Resistance (included heat sink) | K/W | 6.60 | | 3.60 | | 2.00 | |
| Thermal Resistance (not included heat sink) | K/W | 9.20 | | 4.90 | | 2.75 | |

Force-Speed characteristics



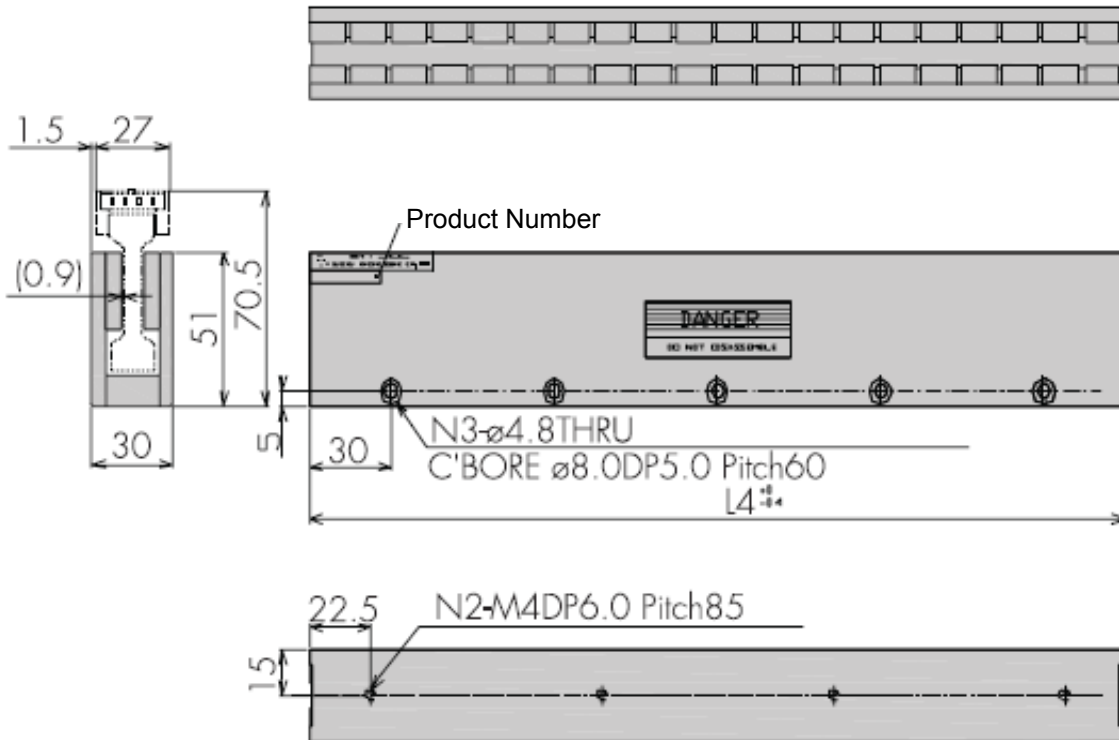
LMML010

Dimensions (unit: mm)
Coil plate



| Type | Size [mm] | | | Qty [pcs] |
|------|-----------|----|----|-----------|
| | L1 | L2 | L3 | N1 |
| KP01 | 78 | 24 | 30 | 4 |
| KP02 | 138 | 32 | 37 | 6 |
| KP03 | 258 | 27 | 68 | 8 |

Magnet plate



| Type | Size [mm] | Qty [pcs] | |
|-------|-----------|-----------|----|
| | L4 | N2 | N3 |
| MP90 | 90 | 2 | 2 |
| MP150 | 150 | 2 | 2 |
| MP300 | 300 | 4 | 5 |